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7-17-02

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing) 		Application Number	09/975,518
		Filing Date	October 11, 2001
		First Named Inventor	Samir Kapoor
		Group Art Unit	2661
		Examiner Name	
		Attorney Docket Number	11722US02
Total Number of Pages in this Transmittal			

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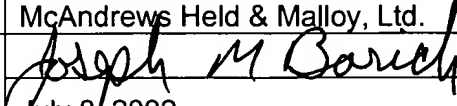
Technology Center 2000

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement with FORM PTO-1449 and Cited References (17) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <p><b>Return Receipt Postcard</b></p>
Remarks		

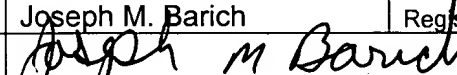
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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual Name	Joseph M. Barich, Reg. No. 42,291 McAndrews Held & Malloy, Ltd.
Signature	
Date	July 8, 2002

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: July 8, 2002

Name (Print/type)	Joseph M. Barich	Registration No. (Attorney/Agent)	42,291
Signature		Date	July 8, 2002

EA



Attorney Docket No. 11722US02

UNITED STATES PATENT AND TRADEMARK OFFICE  
(Attorney Docket No. 11722US02)

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Technology Center 2600

In the Application of:

**Samir Kapoor, et al.**

Serial No. **09/975,518**

Filed: **October 11, 2001**

For: **Method and Apparatus for  
Interference Suppression in  
Orthogonal Frequency  
Division Multiplexed (OFDM)  
Wireless Communication  
System**

Examiner:

Group Art Unit: **2661**

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231 on this 8th day of July, 2002.

By:

*Joseph M. Barich*  
Joseph M. Barich  
Reg. No. 42,291

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97-1.98 and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, it is respectfully requested that the following references be considered in the examination of the above-identified patent application:

**U.S. Patent Documents**

<u>U.S. Patent No.</u>	<u>Date</u>	<u>Inventor(s)</u>
3,978,482	8/31/1976	Williams, et al.
4,931,803	6/5/1990	Shimko
5,345,599	9/6/1994	Paulraj, et al.
5,414,433	5/9/1995	Chang
5,566,209	10/15/1996	Forssén, et al.

6,009,130	12/28/1999	Lurey, et al.
6,104,930	8/15/2000	Ward, et al.
6,141,335	10/31/2000	Kuwahara, et al.
6,144,340	11/7/2000	Kiiski, et al.
6,212,175	4/3/2001	Harsch
4,956,835	09-11-90	Grover

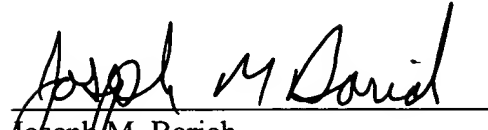
### Other Art

1. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," *IEEE Communications Magazine*, pp. 5-14 (May 1990)
2. Cimini, "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing," *IEEE Transactions on Communication*, pp. 665-675 (July 1985)
3. Kennedy, et al., "Direction Finding and "Smart Antennas" Using Software Radio Architectures," *IEEE Communications Magazine*, pp. 62-68 (May 1995)
4. Paulraj, "Antenna Array Signal Processing with Applications to Mobile Communications," *Second Workshop on Smart Antennas in Wireless Mobile Communications*, Stanford University, Stanford, California 94305, (July 1995) pgs. 1-120
5. Russell, et al., "Terrestrial Digital Video Broadcasting for Mobile Reception Using OFDM," *Wireless Personal Communications*, 2:45-66 (1995)
6. Swales, et al., "The Performance Enhancement of Multibeam Adaptive Base-Station Antennas for Cellular Land Mobile Radio Systems," *IEEE Transactions on Vehicular Technology*, 39(1):56-77 (February 1990)
7. "Guide to Choosing a Wireless Base Station Antenna System," pp. 7-11 (date unknown)

The above-identified references are listed on the attached PTO Form 1449 and copies are also enclosed herewith. This submission is in no way intended as an admission that the above-cited references constitute prior art. Applicant expressly retains the right to take any actions necessary to remove the above-cited references from the available prior art. Consideration of the above-identified references in the examination of the present patent application is respectfully requested.

The Commissioner is hereby authorized to charge any additional fees which may be required or credit any overpayment to Account No. 13-0017.

Respectfully submitted,

  
\_\_\_\_\_  
Joseph M. Barich  
Registration No. 42,291  
Attorney for Applicant

July 8, 2002  
Date

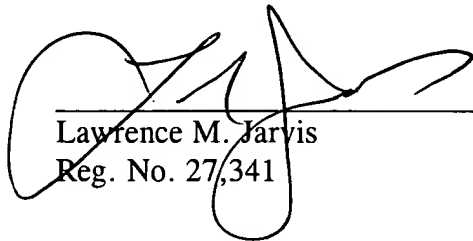
MCANDREWS, HELD & MALLOY, LTD.  
500 West Madison Street, 34th Floor  
Chicago, Illinois 60661

Telephone: (312) 775-8000  
Facsimile: (312) 775-8100

The Commissioner is authorized to charge any additional fees or credit any overpayment to the deposit account of McAndrews, Held and Malloy, Ltd., account number 13-0017.

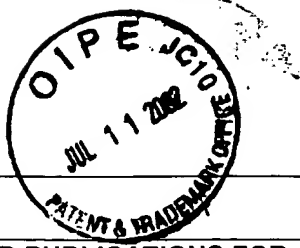
Respectfully submitted,

Date: January 29, 2002



Lawrence M. Jarvis  
Reg. No. 27,341

McAndrews, Held & Malloy, Ltd.  
500 West Madison Street, 34<sup>th</sup> Floor  
Chicago, Illinois 60661  
(312) 775-8000  
(312) 775-8100



FORM PTO-1449	SERIAL NO. 09/975,518	CASE NO. 09/975,518
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE October 11, 2001	GROUP ART UNIT JUL 16 2002
(use several sheets if necessary)	APPLICANT(S): Samir Kapoor, et al. Technology Center 2600	

#### REFERENCE DESIGNATION

#### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A1	3,978,482	8/31/1976	Williams, et al.	343/11 R	3/24/1975
	A2	4,931,803	6/5/1990	Shimko	342/371	3/31/1988
	A3	5,345,599	9/6/1994	Paulraj, et al.	455/49.1	2/21/1992
	A4	5,414,433	5/9/1995	Chang	342/375	2/16/1994
	A5	5,566,209	10/15/1996	Forssén, et al.	375/262	2/10/1994
	A6	6,009,130	12/28/1999	Lurey, et al.	375/347	12/28/1995
	A7	6,104,930	8/15/2000	Ward, et al.	455/450	5/2/1997
	A8	6,141,335	10/31/2000	Kuwahara, et al.	370/342	12/4/1997
	A9	6,144,340	11/7/2000	Kiiski, et al.	342/371	11/12/1999
	A10	6,212,175	4/3/2001	Harsch	370/338	4/22/1997

#### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
	C1	Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," <i>IEEE Communications Magazine</i> , pp. 5-14 (May 1990)
	C2	Cimini, "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing," <i>IEEE Transactions on Communication</i> , pp. 665-675 (July 1985)
	C3	Kennedy, et al., "Direction Finding and "Smart Antennas" Using Software Radio Architectures," <i>IEEE Communications Magazine</i> , pp. 62-68 (May 1995)
	C4	Paulraj, "Antenna Array Signal Processing with Applications to Mobile Communications," <i>Second Workshop on Smart Antennas in Wireless Mobile Communications</i> , Stanford University, Stanford, California 94305, (July 1995) pgs. 1-120
	C5	Russell, et al., "Terrestrial Digital Video Broadcasting for Mobile Reception Using OFDM," <i>Wireless Personal Communications</i> , 2:45-66 (1995)
	C6	Swales, et al., "The Performance Enhancement of Multibeam Adaptive Base-Station Antennas for Cellular Land Mobile Radio Systems," <i>IEEE Transactions on Vehicular Technology</i> , 39(1):56-77 (February 1990)
	C7	"Guide to Choosing a Wireless Base Station Antenna System," pp. 7-11 (date unknown)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.